

CORRES. CONTROL  
INCOMING LTR NO.

4492 RF 93

DUE  
DATE

## Department of Energy

ROCKY FLATS OFFICE  
P.O. BOX 928  
GOLDEN, COLORADO 80402-0928

93-DOE-11272

OCT 08 1993

Mr. Martin Hestmark  
U. S. Environmental Protection Agency, Region VIII  
ATTN: Rocky Flats Project Manager, 8HWM-RI  
999 18th Street, Suite 500, 8WM-C  
Denver, Colorado 80202-2405

Mr. Gary Baughman  
Hazardous Waste Facilities Unit Leader  
Colorado Department of Health  
4300 Cherry Creek Drive South  
Denver, Colorado 80222-1530

Gentlemen:

On July 13, 1993, we submitted the document entitled: "Draft Summary and Analysis of Results, Field Treatability Study, Phase II, South Walnut Creek Basin, Surface Water Interim Measure/Interim Remedial Action (IM/IRA)." We would like to point out a problem with the data from Surface Water Station SW-132 (SW-132). As you know, SW-132 is supposed to represent the location of the culvert discharge from Historical South Walnut Creek. However, our contractor has informed us that the data collected for this location was instead, taken from South Walnut Creek, downstream of SW-132 at a location including the water discharged from the OU2 Walnut Creek IM/IRA. This makes all the data in the subject document invalid. Your staff were first informed of this in a meeting held September 8, 1993, within 24 hours of notification to DOE.

We are conducting sampling at this location to give us an idea of the contaminant concentrations. Enclosed is a copy of the preliminary results of sampling at SW-132. We will be collecting approximately two weeks worth of samples for quick-turn-around analysis from SW-132. Once this data is received, we would like to meet with you and discuss. We expect to be able to meet with you by October 15, 1993. At that time we hope to repeat our request to discontinue collection of water at SW-61 and SW-132.

As indicated in our July 21, 1993 letter (93-DOE-08451), we propose to extend the September 8, 1993 milestone for submittal of the final report until five weeks after receipt of your comments.

EC26  
ROCKY FLATS PLANT  
CORRESPONDENCE CONTROL

OCT 12 1 07 PM '93

ACTION		
DIST	LTR	ENC
BENEDETTI, R.L.		
BENJAMIN, A.		
BERMAN, H.S.		
CARNIVAL, G.J.		
COPP, R.D.		
CORDOVA, R.C.		
DAVIS, J.G.		
FERRERA, D.W.		
FRANZ, W.A.		
HANNI, B.J.		
HEALY, T.J.		
HEDAH, T.G.		
HILBIG, J.G.		
KIRBY, W.A.		
KUESTER, A.W.		
MANN, H.P.		
MARX, G.E.		
MCKENNA, F.G.		
MORGAN, R.V.		
PIZZUTO, V.M.		
POTTER, G.L.		
RILEY, J.H.		
SANDLIN, N.B.		
SATTERWHITE, D.G.		
SCHUBERT, A.L.		
SETLOCK, G.H.		
SULLIVAN, M.T.		
SWANSON, E.R.		
WILKINSON, R.B.		
WILSON, J.M.		
Hutchins	XX	
Busby	XX	
Primrose	XX	
Madel	XX	

CORRES CONTROL x x  
PATST/130G

Adm Ric. XX

Reviewed for Addressee  
Corres. Control RFP10-12-93 Ci  
DATE BY

Ref Ltr. #

DOE ORDER # 5400.1

ADMIN RECORD

BZ-A-00052


OCT 08 1993

M. Hestmark & G. Baughman  
93-DOE-11272

2

If you have any questions, please contact Scott Grace of my staff at 966-7199.

Sincerely,

  
James K. Hartman  
Assistant Manager for Transition  
and Environmental Restoration

cc:

A. Rampertaap, EM-453  
N. Hutchins, EG&G  
W. Busby, EG&G  
A. Primrose, EG&G  
R. Madel, EG&G  
B. Fraser, EPA  
J. Schieffelin, CDH

1A  
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IT PITTSBURGHContract: 3049188W00107JELab Code: ITPACase No.: 04918

SAS No.: \_\_\_\_\_

SDG No.: 0394Matrix: (soil/water) WATERLab Sample ID: Q30918301Sample wt/vol: 5.0 (g/mL) MLLab File ID: 20109110Level: (low/med) LOWDate Received: 09/10/93

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/11/93Column: (pack/cap) CAPDilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloroethane	10	1U
74-83-9	Bromomethane	10	1U
75-01-4	Vinyl Chloride	10	1U
75-00-3	Chloroethane	10	1U
75-09-2	Methylene Chloride	5	1U
67-64-1	Acetone	10	1U
75-15-0	Carbon Disulfide	5	1U
75-35-4	1,1-Dichloroethane	5	1U
75-34-3	1,1-Dichloroethane	5	1U
540-59-0	1,2-Dichloroethane (TOTAL)	5	1U
67-66-3	Chloroform	5	1U
107-06-2	1,2-Dichloroethane	5	1U
78-93-3	2-Butanone	10	1U
71-55-6	1,1,1-Trichloroethane	5	1U
56-23-5	Carbon Tetrachloride	5	1U
108-05-4	Vinyl Acetate	10	1U
75-27-4	Bromodichloromethane	5	1U
78-87-5	1,2-Dichloropropane	5	1U
10051-01-5	cis-1,3-Dichloropropane	5	1U
79-01-6	Trichloroethane	5	1U
124-48-1	Dibromochloromethane	5	1U
79-00-5	1,1,2-Trichloroethane	5	1U
71-43-2	Benzene	5	1U
10061-02-6	Trans-1,3-Dichloropropene	5	1U
75-25-2	Bromoform	5	1U
108-10-1	4-Methyl-2-Pentanone	10	1U
591-78-5	2-Hexanone	10	1U
127-18-4	Tetrachloroethene	5	1U
79-34-5	1,1,2,2-Tetrachloroethane	5	1U
108-88-3	Toluene	5	1U
108-90-7	Chlorobenzene	5	1U
100-41-4	Ethylbenzene	5	1U
100-42-5	Styrene	5	1U
1330-20-7	Total Xylenes	5	1U

Best Available Copy

FORM 1 VOA

 REVIEWED BY: 10  
 DATE: 9-14-93

1/87 Rev.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IT PITTSBURGHContract: 304918

SW00108JE

Lab Code: ITPACase No.: 04918

SAS No.: \_\_\_\_\_

SOG No.: P394Matrix: (soil/water) WATERLab Sample ID: 030912501Sample wt/vol: 3.0 (g/mL) MLLab File ID: P0209110Level: (low/med) LOWDate Received: 09/10/93

\* Moisture: not dec. \_\_\_\_\_

Date Analyzed: 09/11/93Column: (pack/cap) CAPDilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
540-69-0	1,2-Dichloroethane (TOTAL)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

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FORM 1 VOA

 REVIEWED BY: JD 1/87 Rev.  
 DATE: 7-17-97

U.S. EPA - CLP

*Filtered metals*

(2)

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: ITAS PITTSBURGH Contract: ESB ROCKY  
 Lab Codes: ITPA Case No.: 04918 SAS No.: SDG No.: P394F  
 Matrix (soil/water): WATER Lab Sample ID: Q30912601  
 Level (low/mid): LOW Date Received: 09/10/93  
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	Q	IM
17429-90-3	Aluminum	19.0 U		P
17440-36-0	Antimony	17.0 U		P
17440-38-2	Arsenic	2.1 B		F
17440-39-3	Barium	99.5 B		P
17440-41-7	Beryllium	1.0 U		P
17440-43-9	Cadmium	4.0 U		P
17440-70-2	Calcium	65200		P
17440-47-3	Chromium	3.0 U		P
17440-48-4	Cobalt	4.0 U		P
17440-50-8	Copper	2.0 U		P
17439-89-6	Iron	33.7 B		P
17439-92-1	Lead	1.0 U		F
17439-95-4	Magnesium	17300		P
17439-96-5	Manganese	12.4 B		P
17439-97-6	Mercury	0.20 U		CU
17440-02-0	Nickel	7.0 U		P
17440-09-7	Potassium	3390 B		P
17782-49-2	Selenium	3.2 B		F
17440-22-4	Silver	3.0 U		P
17440-23-5	Sodium	55700		P
17440-28-0	Thallium	1.7 B	WN	F
17440-62-2	Vanadium	14.0 U		P
17440-66-6	Zinc	8.2 B		P
17439-98-7	Molybdenum	0.0 U		P
17440-31-5	Tin	13.0 U		P
17440-24-6	Strontium	490		P
17440-46-2	Cesium	29.0 U		A
17439-93-2	Lithium	10.5 B		P
17440-21-3	Silicon	5740		P

Color Before: COLORLESS  
 Color After: COLORLESS

Clarity Before: CLEAR  
 Clarity After: CLEAR

Texture: \_\_\_\_\_  
 Artifacts: \_\_\_\_\_

Comments:

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3  
BLANKS

(3)

Lab Name: ITAS\_PITTSBURGH

Contract: EGG\_ROCKY\_

Lab Code: ITPA\_

Case No.: 04918

SAB No.:

SDB No.: R394F\_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

Method Blank for Filtered metals

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)					Preparation Blank	C	M
			1	2	3	4	5			
Aluminum	15.0	UI	15.0	15.0	15.0	15.0	15.0	15.0	UI	P
Antimony	40.0	BI	17.0	17.0	17.0	17.0	17.0	17.0	UI	P
Arsenic	1.0	UI	1.0	1.0	1.0	1.0	1.0	1.0	UI	F
Barium	1.0	UI	1.0	1.0	1.0	1.0	1.0	1.0	UI	P
Beryllium	1.0	UI	1.0	1.0	1.0	1.0	1.0	1.0	UI	P
Cadmium	4.0	UI	4.0	4.0	4.0	4.0	4.0	4.0	UI	P
Calcium	7.0	UI	7.0	7.0	7.0	7.0	7.0	7.0	UI	P
Chromium	3.0	UI	3.0	3.0	3.0	3.0	3.0	3.0	UI	P
Cobalt	4.0	UI	4.0	4.0	4.0	4.0	4.0	4.0	UI	P
Copper	2.0	UI	2.0	2.0	2.0	2.0	2.0	2.0	UI	P
Iron	7.0	UI	7.0	7.0	7.0	7.0	7.0	7.0	UI	P
Lead	1.0	UI	1.0	1.0	1.0	1.0	1.0	1.0	UI	F
Magnesium	17.0	UI	17.0	17.0	17.0	17.0	17.0	17.0	UI	P
Manganese	1.0	UI	1.0	1.0	1.0	1.0	1.0	1.0	UI	P
Mercury	0.2	UI	0.2	0.2	0.2	0.2	0.2	0.2	UI	CV
Nickel	7.0	UI	7.0	7.0	7.0	7.0	7.0	7.0	UI	P
Potassium	253.0	UI	253.0	253.0	253.0	253.0	253.0	253.0	UI	P
Selenium	1.0	UI	1.0	1.0	1.0	1.0	1.0	1.0	UI	F
Silver	3.0	UI	3.0	3.0	3.0	3.0	3.0	3.0	UI	P
Sodium	11.0	UI	11.0	11.0	11.0	11.0	11.0	26.7	BI	P
Thallium	1.0	UI	1.0	1.0	1.0	1.0	1.0	1.0	UI	F
Vanadium	14.0	UI	14.0	14.0	14.0	14.0	14.0	14.0	UI	P
Zinc	3.0	UI	3.0	3.0	3.0	3.0	3.0	4.1	BI	P
Molybdenum	14.0	BI	10.5	7.7	8.4	8.4	8.4	5.0	UI	P
Tin	12.0	UI	13.0	13.0	14.1	14.1	14.1	13.0	UI	P
Strontium	1.0	UI	1.0	1.0	1.0	1.0	1.0	1.0	UI	P
Cesium	29.0	UI	50.0	29.0	29.0	29.0	29.0	70.0	BI	P
Lithium	3.0	UI	3.0	3.0	3.0	3.0	3.0	3.0	UI	P
Silicon	13.0	UI	14.5	14.5	13.0	13.0	13.0	20.0	BI	P

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total metals (4)

## INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: ITAS PITTSBURGH

Contract: EGG ROCKY

SW00107JE

Lab Code: ITPA

Case No.: 04210

SAS No.:

EQA No.: P394

Matrix (soil/water): WATER

Lab Sample ID: Q30912301

Level (low/med):

LOW

Date Received: 09/10/93

X Solids:

0.0

Concentration Units (ug/L or mg/kg dry weight): US/L

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum	4641			P
17440-36-0	Antimony	17.01U			IP
17440-38-2	Arsenic	2.61B			IF
17440-39-3	Barium	93.81B			IP
17440-41-7	Beryllium	1.01U			IP
17440-43-9	Cadmium	4.01U			IP
17440-70-2	Calcium	5400B			IP
17440-47-3	Chromium	3.01U			IP
17440-48-4	Cobalt	4.01U			IP
17440-50-8	Copper	5.81B			IP
17439-89-6	Iron	8001			IP
17439-92-1	Lead	1.61B			IF
17439-95-4	Magnesium	1430B			IP
17439-96-5	Manganese	24.81			IP
17439-97-6	Mercury	0.201U			CV
17440-02-0	Nickel	7.01U			IP
17440-09-7	Potassium	31801B			IP
17782-49-2	Selenium	2.91B			IF
17440-22-4	Silver	3.01U			IP
17440-23-5	Sodium	4140B			IP
17440-28-0	Thallium	1.01U	WN		IF
17440-62-2	Vanadium	29.71B			IP
17440-66-6	Zinc	90.71			IP
17439-98-7	Molybdenum	5.81B			IP
17440-31-5	Tin	13.01U			IP
17440-24-6	Strontium	411			IP
17440-46-2	Cesium	29.01U			A
17439-97-8	Lithium	6.01B			IP
17440-01-3	Silicon	5190			IP

Color Before: COLORLESS  
Color After: COLORLESSClarity Before: CLEAR  
Clarity After: CLEARTexture: \_\_\_\_\_  
Artifacts: \_\_\_\_\_

Comments:

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*Filtered metals*

## INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

①

Lab Name: ITAS PITTSBURGH

Contract: EGG ROCKY

SW00107JE

Lab Code: ITPA

Case No.: 04918

SAS No.: 1

SDG No.: P394F

Matrix (soil/water): WATER

Lab Sample ID: 030912401

Level (low/med): LOW

Date Received: 09/10/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	IM
17429-90-5	Aluminum	15.01U			P
17440-36-0	Antimony	21.91B			P
17440-38-2	Arsenic	2.21B			F
17440-39-3	Barium	85.71B			P
17440-41-7	Beryllium	1.01U			P
17440-43-9	Cadmium	4.01U			P
17440-70-2	Calcium	829001			P
17440-47-3	Chromium	3.01U			P
17440-48-4	Cobalt	4.01U			P
17440-50-8	Copper	10.71B			P
17439-89-6	Iron	21.31B			P
17439-92-1	Lead	1.01U			F
17439-95-4	Magnesium	142001			P
17439-96-5	Manganese	8.51B			P
17439-97-6	Mercury	0.201U			CV
17440-02-0	Nickel	7.01U			P
17440-09-7	Potassium	28801B			P
17782-49-2	Selenium	2.71B			F
17440-22-4	Silver	3.01U			P
17440-23-5	Sodium	417001			P
17440-28-0	Thallium	1.01U	WN		F
17440-62-2	Vanadium	14.01U			P
17440-66-6	Zinc	7.91B			P
17439-98-7	Molybdenum	5.01U			P
17440-31-5	Tin	13.01U			P
17440-24-6	Strontium	4091			P
17440-40-2	Cesium	24.01U			A
17439-93-2	Lithium	9.31B			P
17440-21-3	Silicon	43501			P

Color Before: COLORLESS  
 Color After: COLORLESS

Clarity Before: CLEAR  
 Clarity After: CLEAR

Texture: \_\_\_\_\_  
 Artifacts: \_\_\_\_\_

Comments:

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